Experimental Cell Research

Volume 254, 2000

ACADEMIC PRESS
A Harcourt Science and Technology Company

Copyright © 2000 by Academic Press
All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the Publisher. *Exceptions:* Explicit permission from Academic Press is not required to reproduce a maximum of two figures or tables from an Academic Press article in another scientific or research publication provided that the material has not been credited to another source and that full credit to the Academic Press article is given. In addition, authors of work contained herein need not obtain permission in the following cases only: (1) to use their original figures or tables in their future works; (2) to make copies of their papers for use in their classroom teaching; and (3) to include their papers as part of their dissertations.

The appearance of the code at the bottom of the first page of an article in this journal indicates the Publisher's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (222 Rosewood Drive, Danvers, Massachusetts 01923), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-2000 articles are the same as those for current articles.

0014-4827/00 $35.00

MADE IN THE UNITED STATES OF AMERICA

This journal is printed on acid-free paper.

♾

Contents of Volume 254

Number 1, January 10, 2000

Reviews

Clare L. Abram and Sara A. Courtneidge. Src Family Tyrosine Kinases and Growth Factor Signaling 1

Jun-ichiro Inoue, Takaomi Ishida, Nobuo Tsukamoto, Norihiko Kobayashi, Asuka Naito, Sakura Azuma, and Tadashi Yamamoto. Tumor Necrosis Factor Receptor-Associated Factor (TRAF) Family: Adapter Proteins That Mediate Cytokine Signaling 14

Regular Articles

M. Seiberg, C. Paine, E. Sharlow, P. Andrade-Gordon, M. Costanzo, M. Eisinger, and S. S. Shapiro. The Protease-Activated Receptor 2 Regulates Pigmentation via Keratinocyte-Melanocyte Interactions 25

Pamela A. Havre, Michael Rice, Ronald Ramos, and Eric B. Kmiec. HsRec2/Rad51L1, a Protein Influencing Cell Cycle Progression, Has Protein Kinase Activity 33

Samuel Salzberg, Shlomit Vilchik, Shenhav Cohen, Adi Heller, and Yosefa Kronfeld-Kinar. Expression of a PKR Dominant-Negative Mutant in Myogenic Cells Interferes with the Myogenic Process 45

Annika Armulik, Gunbjørg Svineng, Krister Wennerberg, Reinhard Fässler, and Staffan Johansson. Expression of Integrin Subunit β1B in Integrin β1-Deficient GD25 Cells Does Not Interfere with $\alpha V\beta 3$ Functions 55

Gang Wang, Robin Miskimins, and W. Keith Miskimins. Mimosine Arrests Cells in G1 by Enhancing the Levels of $p27^{Kip1}$ 64

Sigrid Hoyer-Fender, Prim B. Singh, and Dirk Motzkus. The Murine Heterochromatin Protein M31 Is Associated with the Chromocenter in Round Spermatids and Is a Component of Mature Spermatozoa 72

Silke Werner, Sabine Werner, and Barbara Munz. Suppression of Keratin 15 Expression by Transforming Growth Factor β *in Vitro* and by Cutaneous Injury *in Vivo* 80

Victoria J. Heath, David A. F. Gillespie, and Dorothy H. Crouch. Inhibition of the Terminal Stages of Adipocyte Differentiation by cMyc 91

Chafké Ahmed Belmokhtar, Alicia Torriglia, Marie-France Counis, Yves Courtois, Alain Jacquemin-Sablon, and Evelyne Ségal-Bendirdjian. Nuclear Translocation of a Leukocyte Elastase Inhibitor/Elastase Complex during Staurosporine-Induced Apoptosis: Role in the Generation of Nuclear L-DNase II Activity 99

Albert A. Stone and Timothy C. Chambers. Microtubule Inhibitors Elicit Differential Effects on MAP Kinase (JNK, ERK, and p38) Signaling Pathways in Human KB-3 Carcinoma Cells 110

4 201HI XL 1077
5/00 31249-200

Patrick K. K. Yeung, David C. New, Alexis Leveson, Cain H. Yam, Randy Y. C. Poon, and Joseph T. Y. Wong. The Spindle Checkpoint in the Dinoflagellate *Crypthecodinium cohnii* 120

Ada L. Olins, Harald Herrmann, Peter Lichter, and Donald E. Olins. Retinoic Acid Differentiation of HL-60 Cells Promotes Cytoskeletal Polarization 130

Koei Okazaki, Hiroto Okayama, and Osami Niwa. The Polyubiquitin Gene Is Essential for Meiosis in Fission Yeast 143

Andrew Engelhard, Ken Campbell, and Bruno Calabretta. B-myb Alters the Response of Myeloid Precursor Cells to G-CSF 153

Emma Jones, Hiroshi Kimura, Marc Vigneron, Zhengxin Wang, Robert G. Roeder, and Peter R. Cook. Isolation and Characterization of Monoclonal Antibodies Directed against Subunits of Human RNA Polymerases I, II, and III 163

Isabelle Latour, Amaya Leunda-Casi, Jean-François Denef, and Pedro Buc Calderon. Activation of Poly(ADP-Ribose)Polymerase in Rat Hepatocytes Does Not Contribute to Their Cell Death by Oxidative Stress 173

Rapid Communications

Hisashi Kurata, Aye Aye Thant, Seiichi Matsuo, Takeshi Senga, Kenji Okazaki, Nigishi Hotta, and Michinari Hamaguchi. Constitutive Activation of MAP Kinase Kinase (MEK1) Is Critical and Sufficient for the Activation of MMP-2 180

Tarekegn Geberhiwot, Sulev Ingerpuu, Claudio Pedraza, Mauricio Neira, Ismo Virtanen, Karl Tryggvason, and Manuel Patarroyo. Erythromegakaryocytic Cells Synthesize Laminin-8 ($\alpha4\beta1\gamma1$) 189

Erratum

Volume **253,** Number 1 (1999), in Article ID excr.1999.4690, "The Regulation and Activities of the Multifunctional Serine/Threonine Kinase Akt/PKB," by Eugene S. Kandel and Nissim Hay, pages 210–229 196

Number 2, February 1, 2000

Ali Jazayeri, James McGee, Takeshi Shimamura, Scott B. Cross, and Bruce E. Bejcek. SHP-2 Can Suppress Transformation Induced by Platelet-Derived Growth Factor 197

Elizabeth L. Isaac, Litsa E. Karageorgos, Doug A. Brooks, John J. Hopwood, and Peter J. Meikle. Regulation of the Lysosome-Associated Membrane Protein in a Sucrose Model of Lysosomal Storage 204

Mojgan Parizi, Eric W. Howard, and James J. Tomasek. Regulation of LPA-Promoted Myofibroblast Contraction: Role of Rho, Myosin Light Chain Kinase, and Myosin Light Chain Phosphatase 210

Nobusada Shinoura, Rika Satou, Yoko Yoshida, Akio Asai, Takaaki Kirino, and Hirofumi Hamada. Adenovirus-Mediated Transfer of Bcl-X_L Protects Neuronal Cells from Bax-Induced Apoptosis 221

Xinping Zhang, Scott G. Morham, Robert Langenbach, Raymond B. Baggs, and Donald A. Young. Lack of Cyclooxygenase-2 Inhibits Growth of Teratocarcinomas in Mice 232

Placeholder